

# Broadcast Formats and Message Formats

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Global Command and Control System utilizes both Broadcast Formats and Message Formats.

## Broadcast Formats

### Tactical Data Dissemination System (TDDS)

The Global Command and Control System-Joint (GCCS-J) Tactical Data Processors (TDPs), when equipped with an appropriate tactical receiver such as the Tactical Receive Equipment/Segment (TRE/TRS), the Multi-mission Advanced Tactical Terminal (MATT), the Commanders Tactical Terminal (CTT), or the Joint Tactical Terminal (JTT), and which are within the broadcast footprint, can receive near-real-time TDDS data via the OTA broadcast in Tactical Data Information Exchange System-B (TADIXS-B) format. The tactical receiver converts the Global Command and Control System-Maritime (GCCS-M) data input into one of several formats, such as TRE Tabular 37 (American Standard Code for Information Interchange (ASCII)), Tactical Electronic Intelligence (TACELINT (ASCII)), or Tactical Data Intercomputer Message Format (TDIMF) (binary), depending on user requirements. The interface from the receiver to the TDP can be either an RS-232 asynchronous serial interface, or a TCP/IP LAN interface, depending on receiver and TDP requirements.

### Tactical Information Broadcast System (TIBS)

The Tactical Information Broadcast System (TIBS) is a theater ultra-high frequency (UHF) Line-of-Sight (LOS) or satellite-interactive network. TIBS can support up to 10 producers, 50 query nodes, and an unlimited number of receive-only users while operating at the Secret collateral level. The TIBS network of continuous, secure broadcast of data among producers and subscribers provides a near-real-time, multi-sensor, multi-source situational awareness and threat warning information broadcast to the warfighter. The primary function of TIBS is to provide near-real-time tactical information to the battle commanders for targeting, battle management, and situational awareness. After the intelligence and information is collected and processed, TIBS supports the rapid, global dissemination of the battle situation to the warfighter at all levels of command in a common, readily understood format, and in sufficient time to react to the data.

## Message Formats

### Over-the-Horizon-GOLD (OTH-G)

Navy only - Over-the-Horizon-GOLD (OTH-G) is the primary message format for Tactical Data Processor (TDP) to TDP information exchange on the Officer Tactical Command Information Exchange System (OTCIXS) and Tactical Data Information Exchange System (TADIXS). It is also designed to be man readable by non-TDP users.

Tactical Data Dissemination System (TDDS) sends data by two methods to the Global Command and Control System-Joint (GCCS-J)

### United States Message Text Format (USMTF)

The United States Message Text Format (USMTF), designed primarily for non-real-time exchange, is based on a character-oriented message format and is the standard for man-readable and machine-processable information exchange. The jointly agreed upon USMTFs are the mandatory standard for record messages when communicating with the Joint Staff, Combatant Commands, and Service Components. Tactical Data Links, character-

oriented/man-readable (USMTF messages), imagery standards, voice, and video will provide a timely, integrated, and coherent picture for joint commanders and their operational forces.

#### **INTEROPERABILITY CERTIFICATION STATUS**

Please refer to the [Joint GCCS Interoperability Status Table](#)